

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/02011

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C01B33/20 B01J20/10 A01N59/16 A01N59/20 A61L9/01
 B01D53/34 B01J39/02 B01J39/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C01B B01J A01N B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, INSPEC, COMPENDEX, CHEM ABS Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 99 27942 A (SHEEN BIOTECHNOLOGY PTY LTD ;RILEY THOMAS V (AU); MYERS CINDY ANNE) 10 June 1999 (1999-06-10)</p> <p>claims 1-15 page 1, line 3 -page 4, line 25</p> <p>---</p> <p>-/--</p>	<p>1-5,7, 13,19, 21-23, 37,38, 43,44, 49,51,52</p>



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

23 February 2004

Date of mailing of the international search report

04/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Rigondaud, B

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 92 10292 A (ENGELHARD CORP) 25 June 1992 (1992-06-25) claims 1,2,4-9 page 7, line 6 -page 8, line 4 examples 10-12,15 & US 5 053 139 A 1 October 1991 (1991-10-01) cited in the application	1,2,4,6, 9,14,15, 22,35, 36,41,42
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; KOMATSU, YOSHINOBU ET AL: "Amorphous copper silicates, their manufacture, and their uses in antibacterial agents and antifouling coatings" retrieved from STN Database accession no. 126:33988 CA XP002271162 abstract	1-5,7, 13,14, 16,19, 21,23, 37,38, 43,44, 49-52
A	& JP 08 283013 A (MIZUSAWA INDUSTRIAL CHEM, JAPAN) 29 October 1996 (1996-10-29)	10-12
X	US 6 284 364 B1 (NODE SHUNSAKU ET AL) 4 September 2001 (2001-09-04) claim 1 column 3, line 15 -column 7, line 40 example 6 table 1 abstract	1-3,5,7, 10, 14-21, 23, 25-34, 37,38, 43,44, 49-53
X	DATABASE WPI Section Ch, Week 199423 Derwent Publications Ltd., London, GB; Class E36, AN 1994-186002 XP002271163 & JP 06 121926 A (NISSAN MOTOR CO LTD), 6 May 1994 (1994-05-06) abstract	1,8,16, 19,24, 39,40, 45,46, 49-52
X	US 3 836 633 A (BESCHKE H) 17 September 1974 (1974-09-17) the whole document	1-5,13, 49,51

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INTERNATIONAL SEARCH REPORT

Internati ublication No
PCT/IB 03/02011

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 03 089112 A (HUGHES KENNETH D ;WATERVISIONS INTERNATIONAL INC (US)) 30 October 2003 (2003-10-30) claims 1,2,37,38,46-52,94-108 page 1, line 6 ~ line 12 page 5, line 21 -page 6, line 2 page 14, line 35 -page 16, line 20 -----	1,6-12, 14-24, 37-53
E	WO 03 075664 A (LANGLEY TOM ANTHONY ;CONVE LTD (AU); SHEEN RONALD JAMES (AU)) 18 September 2003 (2003-09-18) claims 1-13,23,31 -----	1,2,7, 10,37, 38,49-52

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat application No

PCT/IB 03/02011

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9927942	A	10-06-1999	AU 1647499 A	16-06-1999
			WO 9927942 A1	10-06-1999
WO 9210292	A	25-06-1992	US 5053139 A	01-10-1991
			AT 170776 T	15-09-1998
			AU 8915691 A	08-07-1992
			CA 2097728 A1	05-06-1992
			DE 69130179 D1	15-10-1998
			DE 69130179 T2	20-05-1999
			EP 0561998 A1	29-09-1993
			JP 6504714 T	02-06-1994
			JP 3199733 B2	20-08-2001
			KR 167368 B1	15-01-1999
			MX 9100320 A1	10-08-1992
			WO 9210292 A1	25-06-1992
			ZA 9105661 A	27-05-1992
JP 8283013	A	29-10-1996	NONE	
US 6284364	B1	04-09-2001	JP 11010781 A	19-01-1999
			US 2001051262 A1	13-12-2001
JP 6121926	A	06-05-1994	NONE	
US 3836633	A	17-09-1974	DE 2036554 A1	03-02-1972
			FR 2101896 A5	31-03-1972
			GB 1340377 A	12-12-1973
			NL 7108803 A , B	25-01-1972
WO 03089112	A	30-10-2003	US 2003196966 A1	23-10-2003
			WO 03089112 A1	30-10-2003
WO 03075664	A	18-09-2003	WO 03075664 A1	18-09-2003